

EXHIBIT G

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12, EP-TA800, EP-TA845

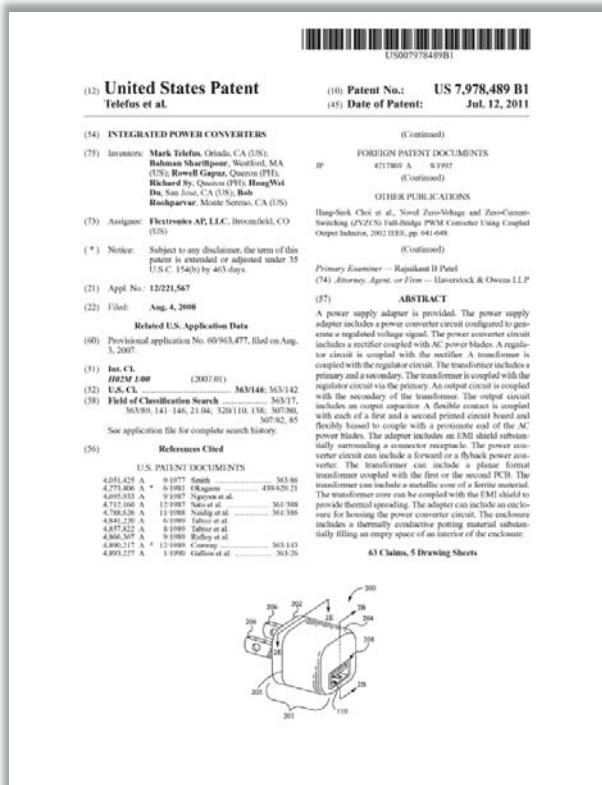
**Title: INTEGRATED POWER CONVERTERS****Priority Date:** Aug. 03, 2007**Filed Date:** Aug. 04, 2008**Issued Date:** Jul. 12, 2011**Expiration Date:** Nov. 10, 2029**Inventors:** Mark Telefus; Bahman Sharifipour; Rowell Gapuz; Richard Sy; HongWei Du; Bob Roohparvar**Claims:** 43, 53, 54, 60

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

Claim 43

A (PC) power supply adapter comprising:

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

a (RECT) rectifier coupled with (ACB) ac power blades;

a (REG) regulator circuit coupled with the (RECT) rectifier;

a (XFM) transformer coupled with the (REG) regulator circuit,

the (XFM) transformer including a (XP) primary and a (XS) secondary,

the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.

Claim 53

The adapter of claim 43, wherein the (FLXC) flexible contact comprises a metallic conductor.

Claim 54

The adapter of claim 43, wherein the (FLXC) flexible contact is configured to electrically couple an AC power source from the (ACB) ac power blades to the (SPS) power converter circuit.

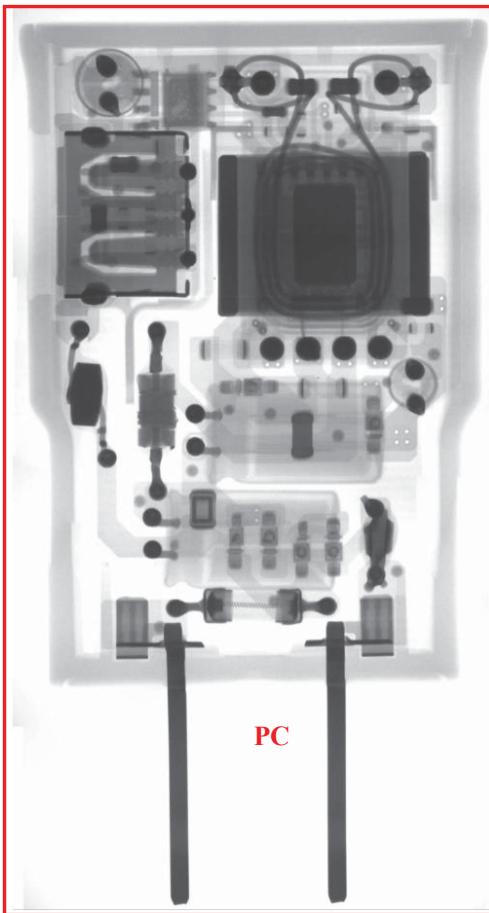
Claim 60

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

A (PC) power supply adapter comprising:

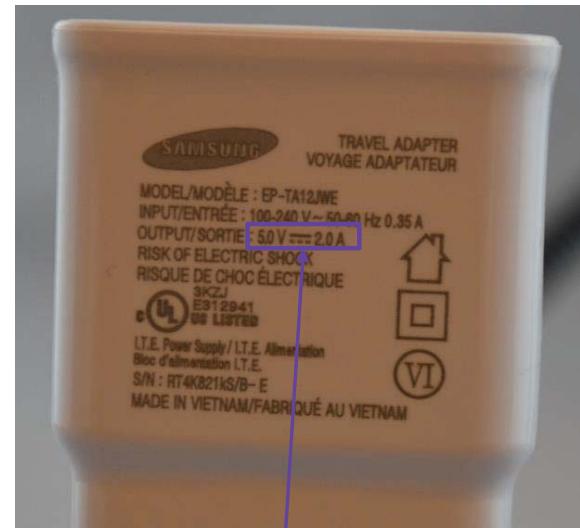
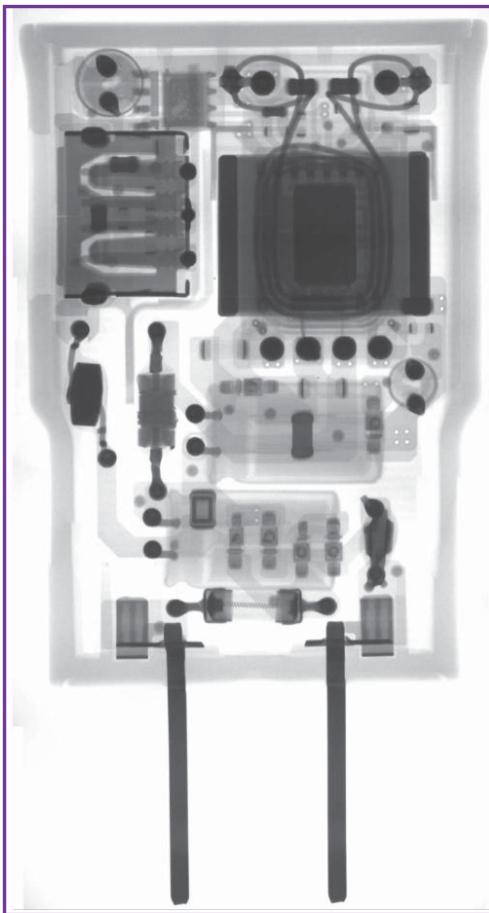


Claim 43

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a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

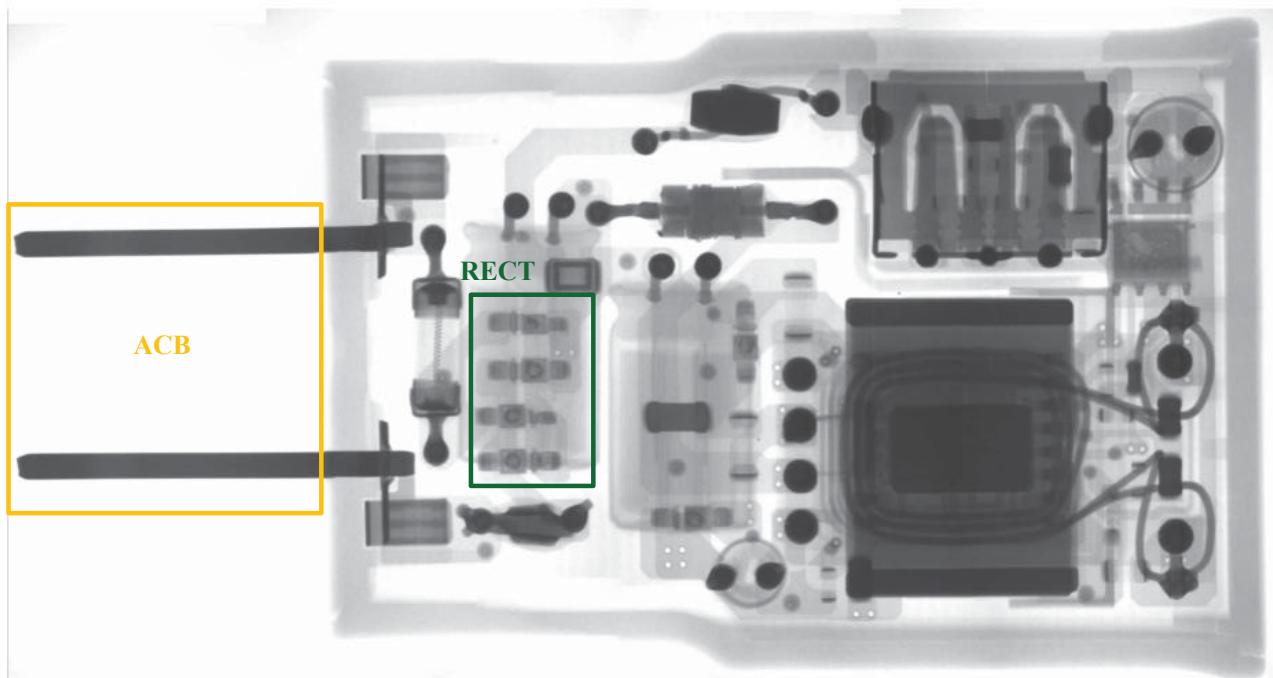
SPS



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

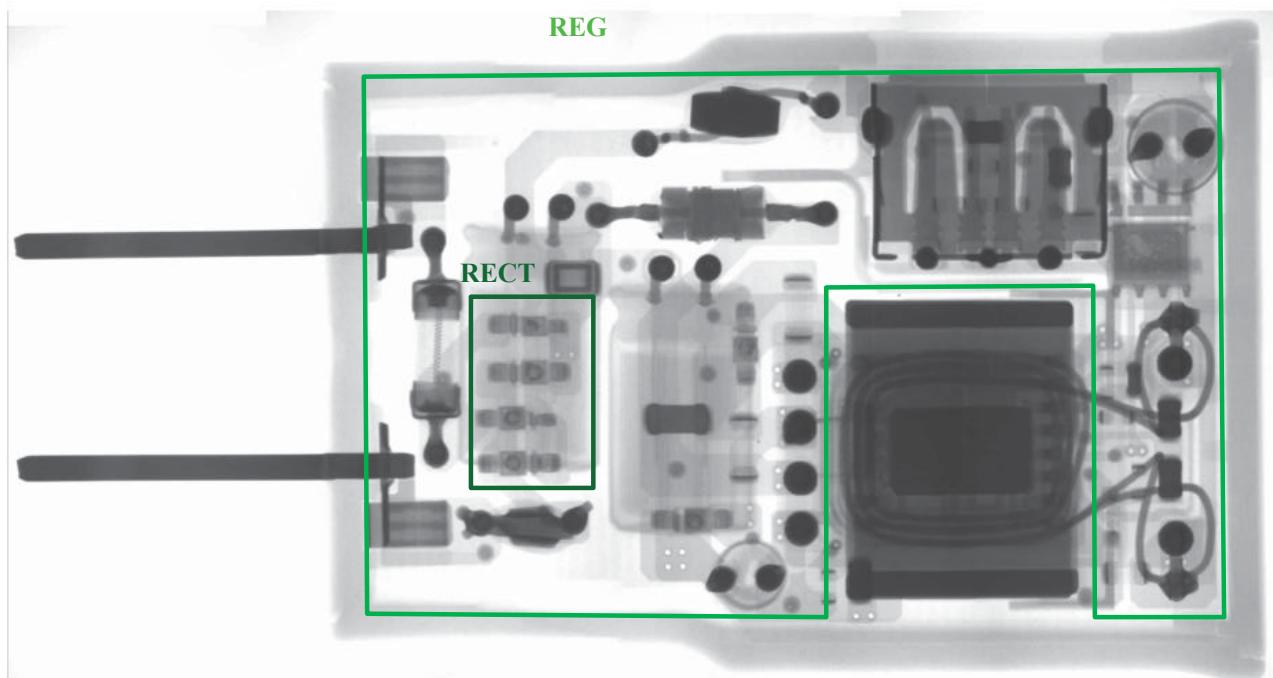
a (RECT) rectifier coupled with (ACB) ac power blades;



Claim 43

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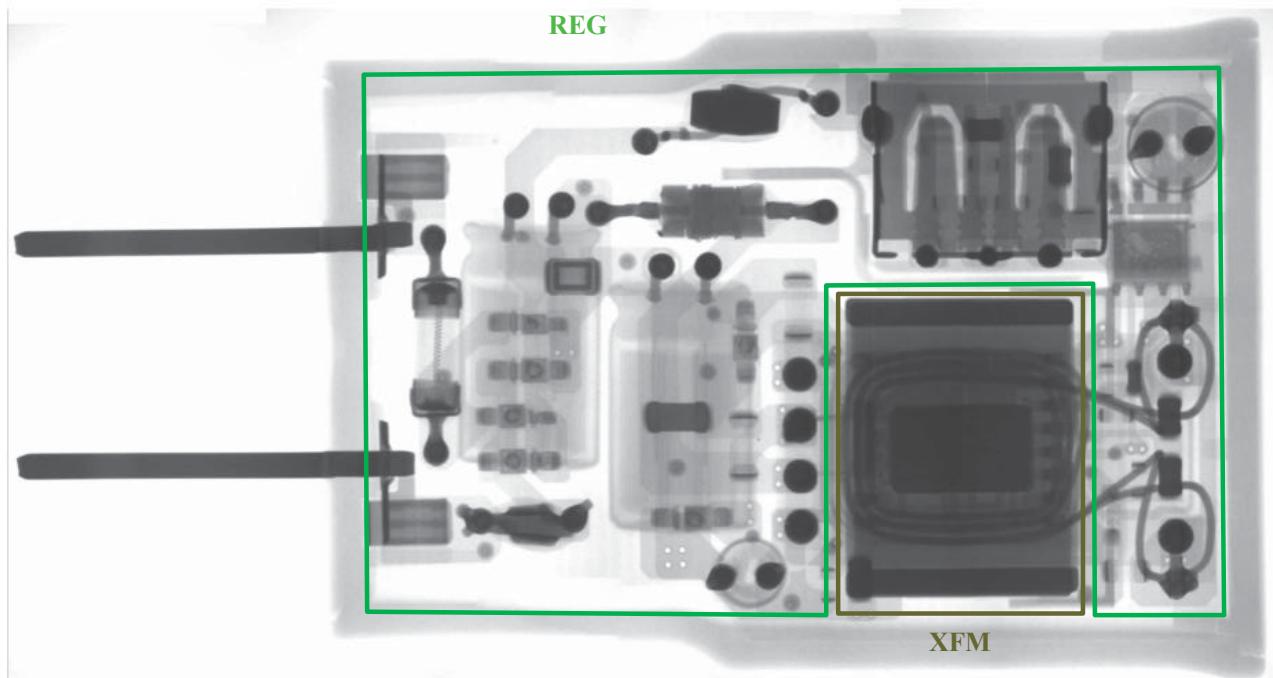
a (REG) regulator circuit coupled with the (RECT) rectifier;



Claim 43

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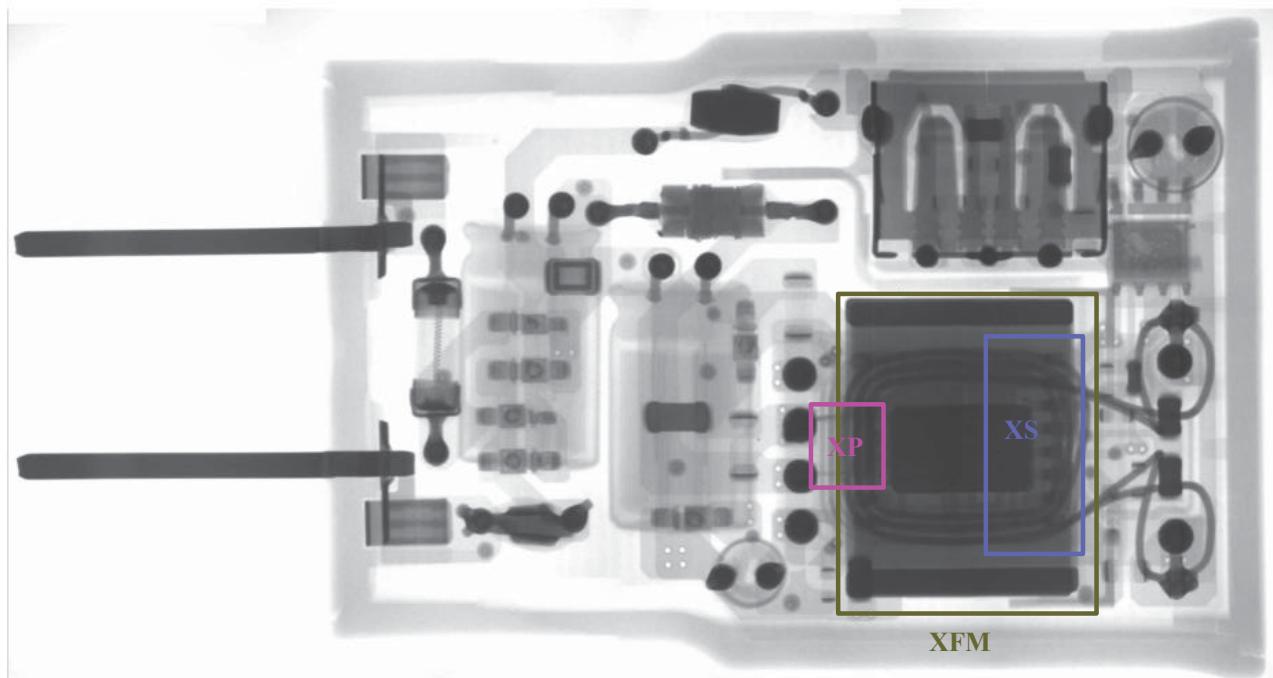
a (XFM) transformer coupled with the (REG) regulator circuit,



Claim 43

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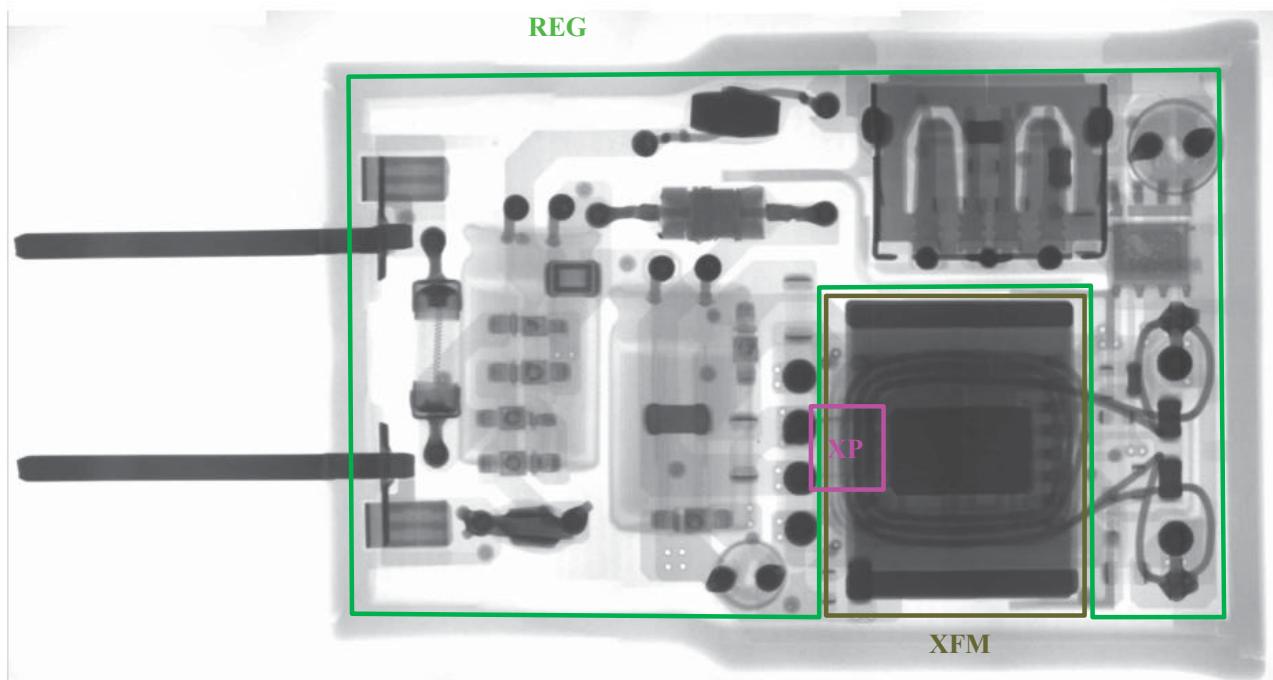
the (XFM) transformer including a (XP) primary and a (XS) secondary,



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and

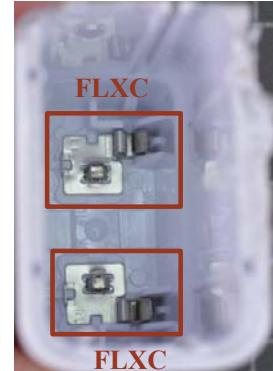
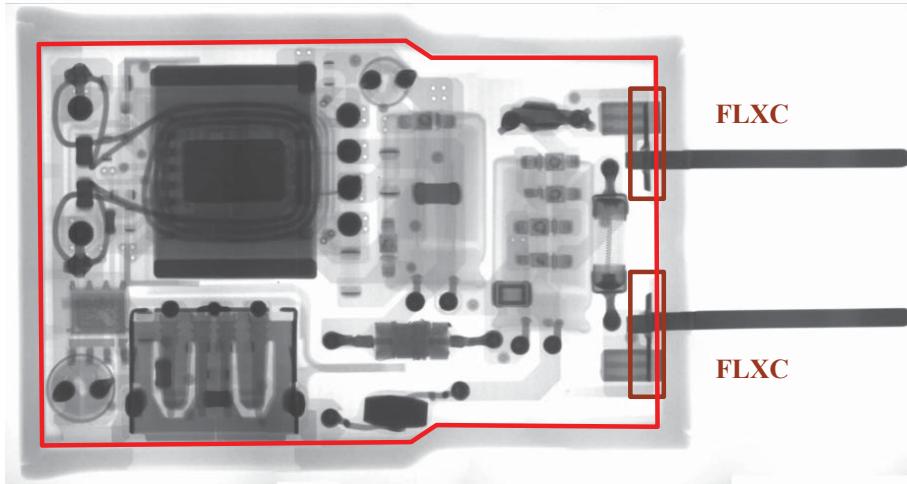


Claim 43

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a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and

PCBs

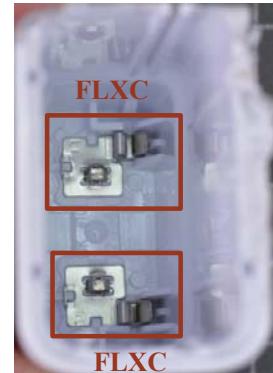
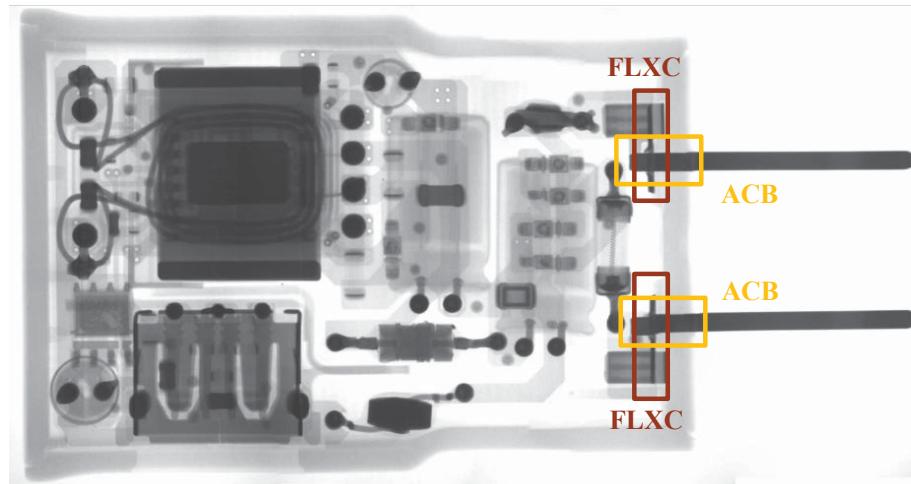


Potentially, literally and equivalently present.

Claim 43

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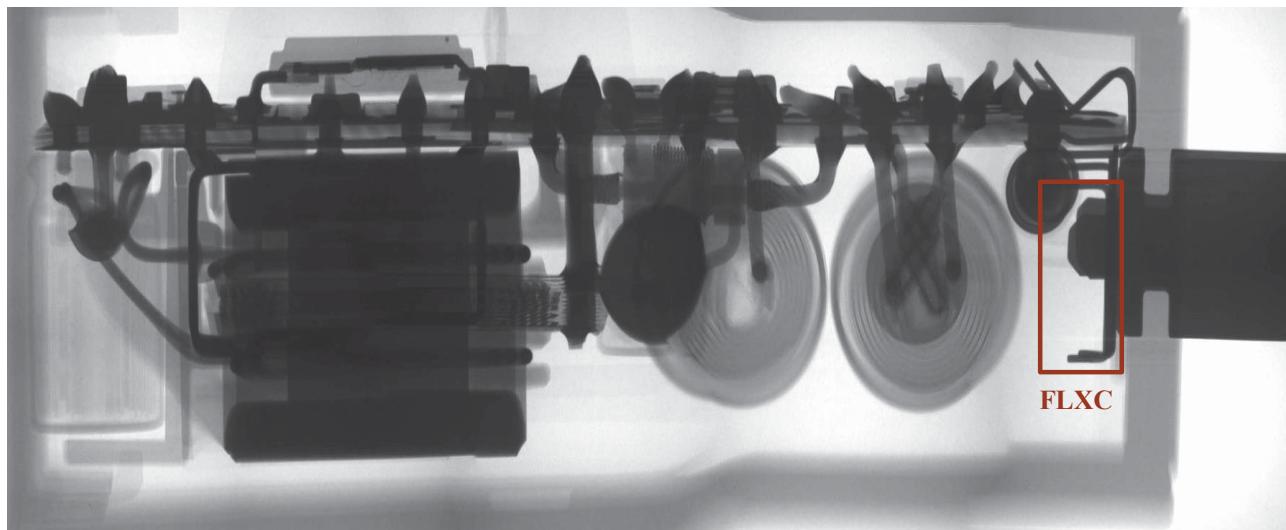
(FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.



Claim 43

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(FLXC) flexibly biased to couple with a proximate end of the ac power blades.



Claim 53

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

The adapter of claim 43, wherein the **(FLXC)** flexible contact comprises a metallic conductor.

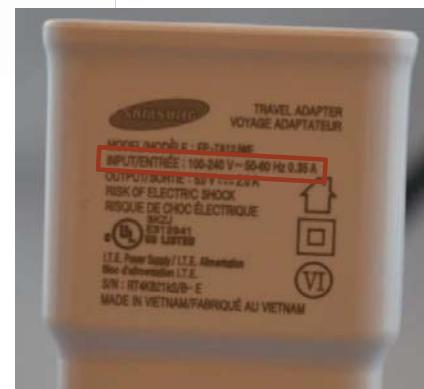
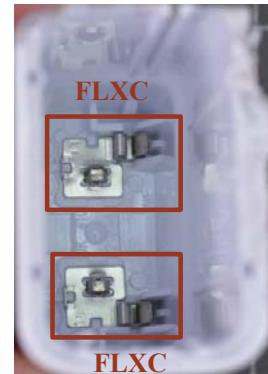
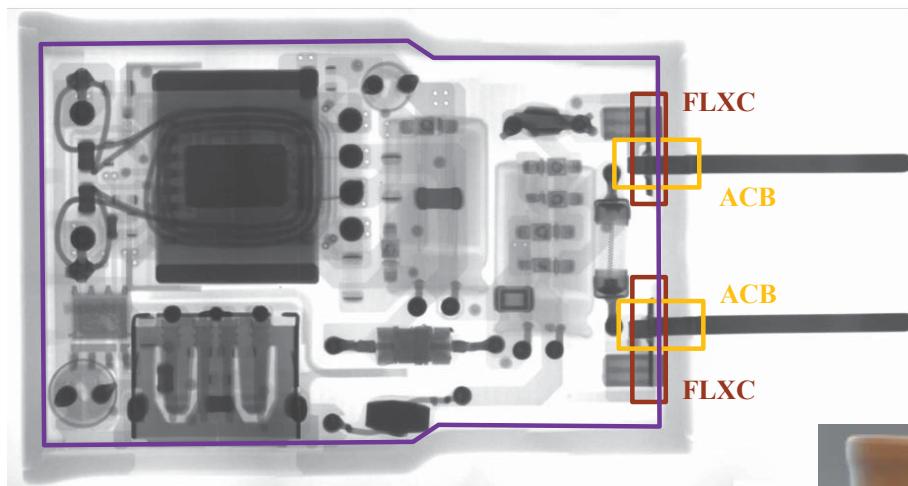


Claim 54

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The adapter of claim 43, wherein the **(FLXC)** flexible contact is configured to electrically couple an AC power source from the **(ACB)** ac power blades to the **(SPS)** power converter circuit.

SPS



Claim 60

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The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

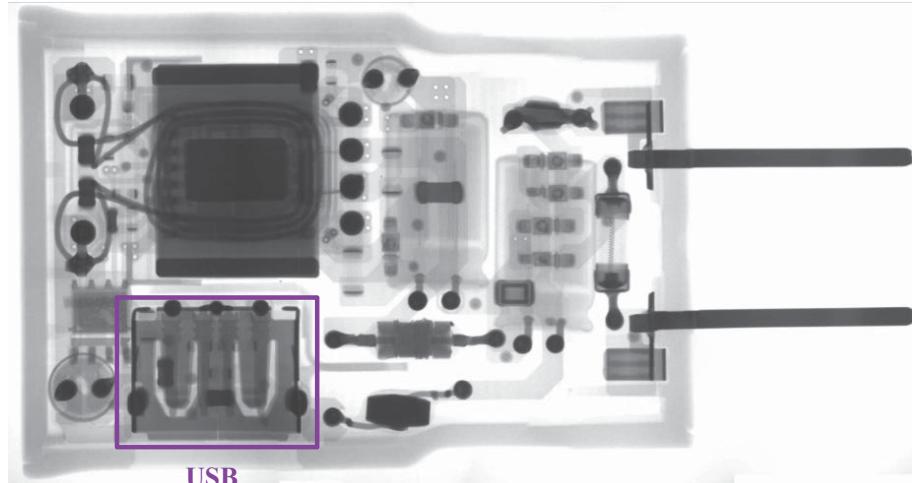


Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

Claim 43

A (CON) power supply adapter comprising:

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

a (RECT) rectifier coupled with (ACB) ac power blades;

a (REG) regulator circuit coupled with the (RECT) rectifier;

a (XFM) transformer coupled with the (REG) regulator circuit,

the (XFM) transformer including a (XP) primary and a (XS) secondary,

the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.

Claim 53

The adapter of claim 43, wherein the (FLXC) flexible contact comprises a metallic conductor.

Claim 54

The adapter of claim 43, wherein the (FLXC) flexible contact is configured to electrically couple an AC power source from the (ACB) ac power blades to the (SPS) power converter circuit.

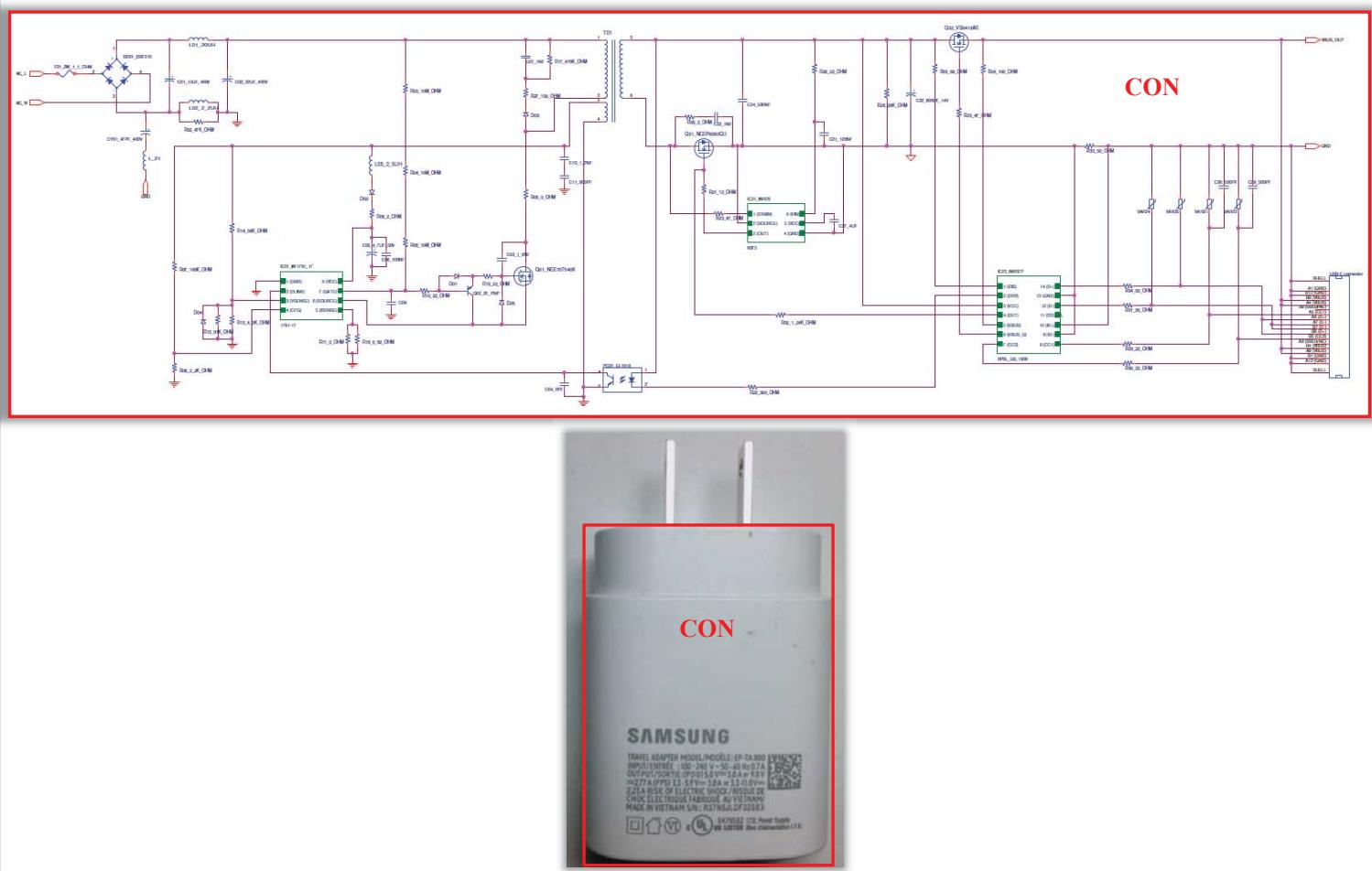
Claim 60

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

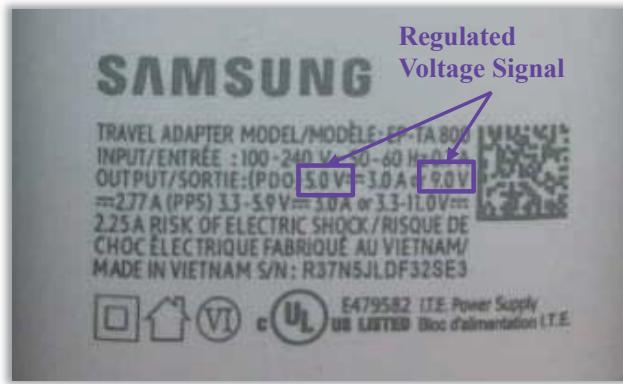
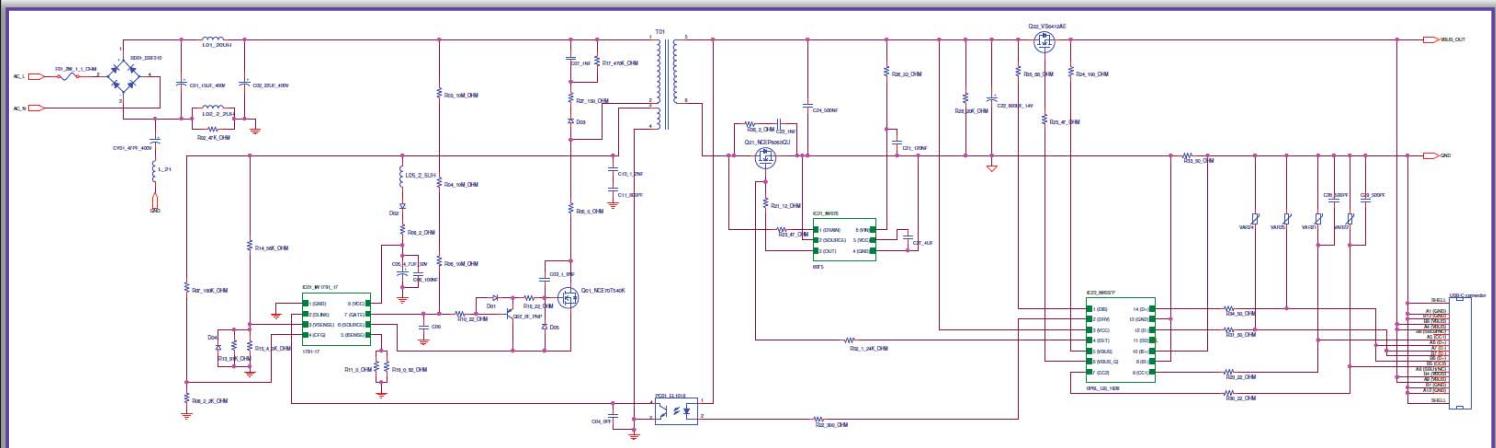
A (CON) power supply adapter comprising:



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

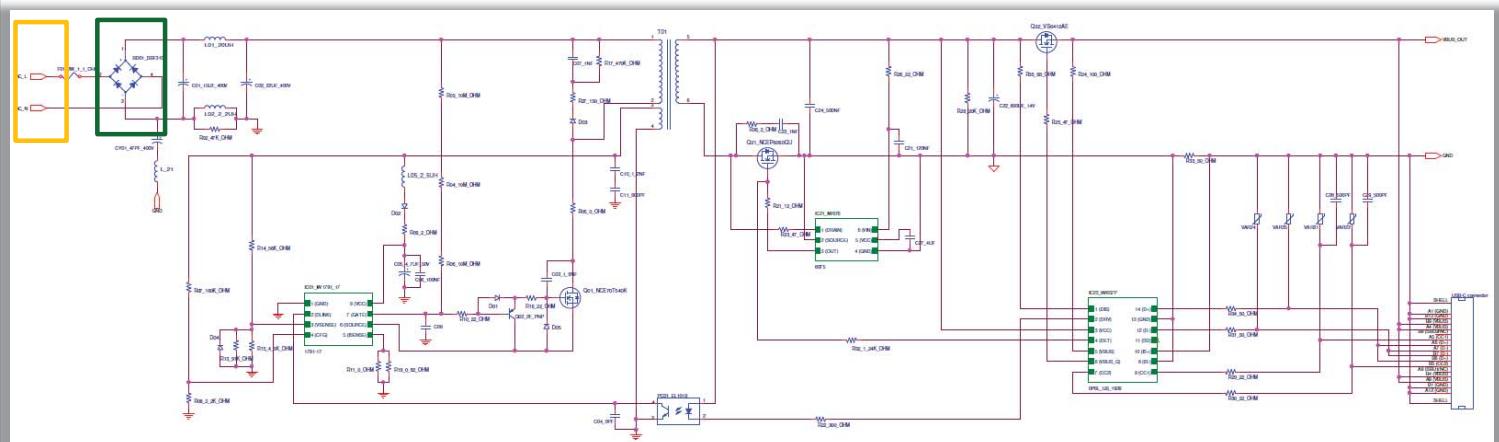


Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (RECT) rectifier coupled with (ACB) ac power blades;

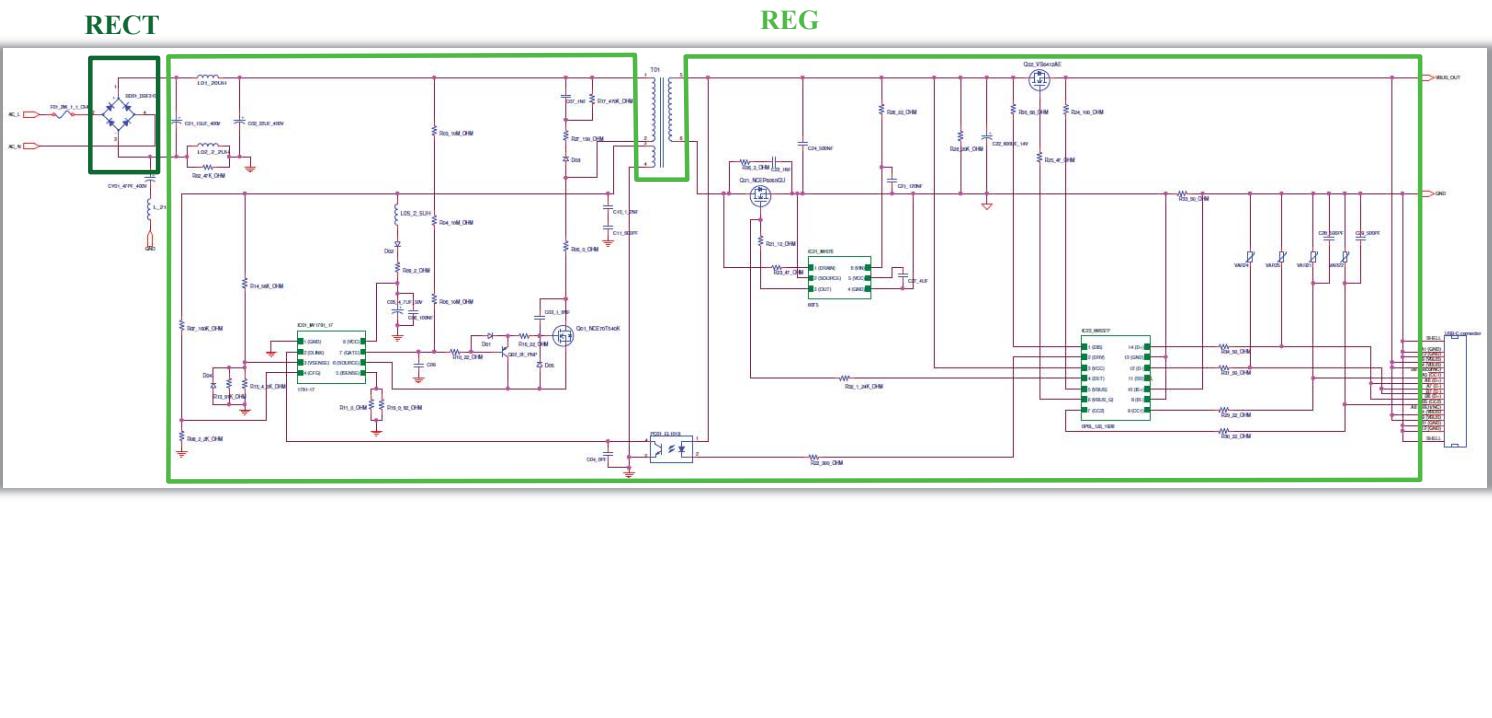
ACB RECT



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

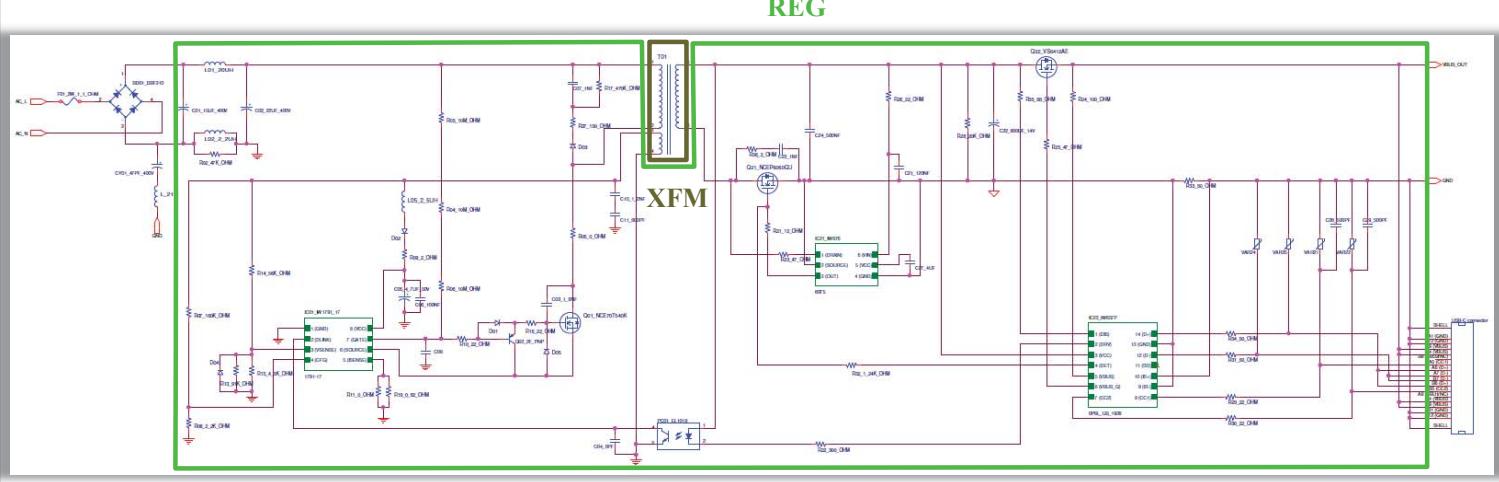
a (REG) regulator circuit coupled with the (RECT) rectifier;



Claim 43

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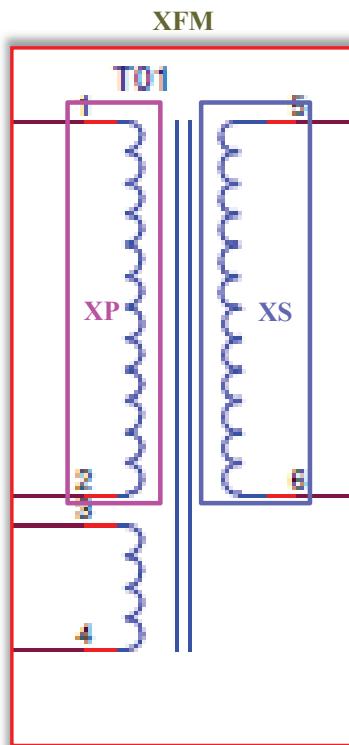
a (XFM) transformer coupled with the (REG) regulator circuit,



Claim 43

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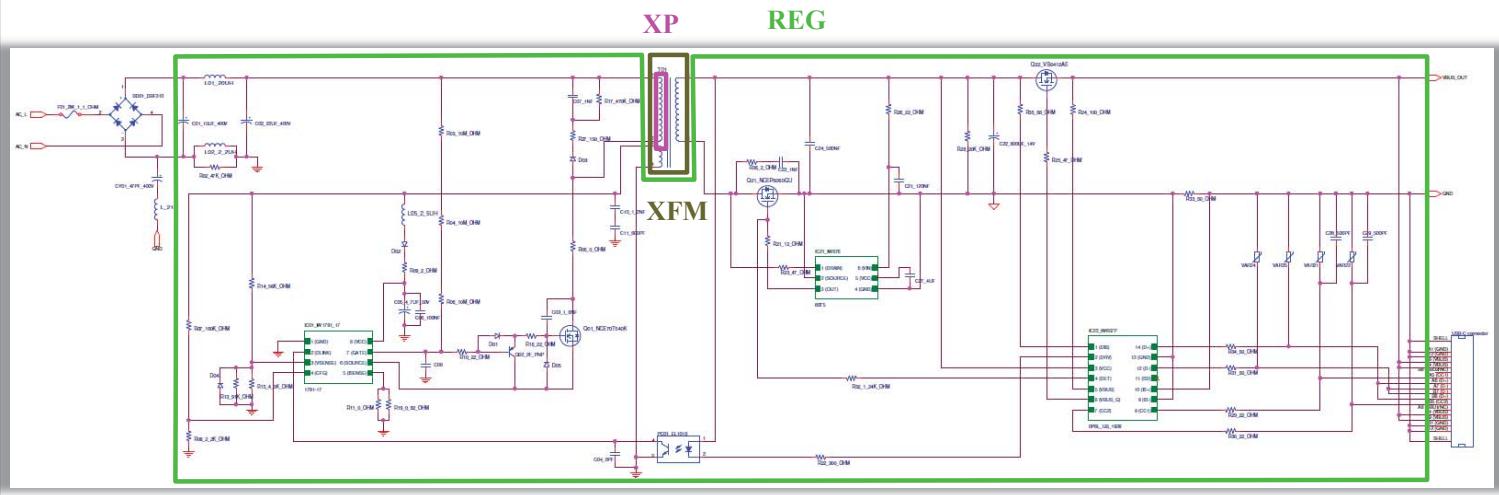
the (XFM) transformer including a (XP) primary and a (XS) secondary,



Claim 43

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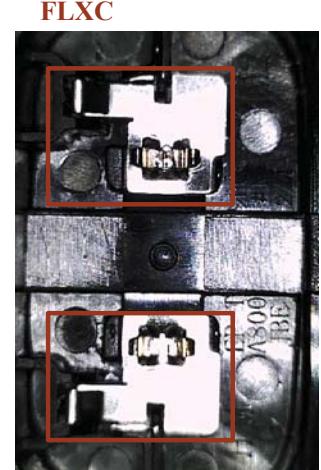
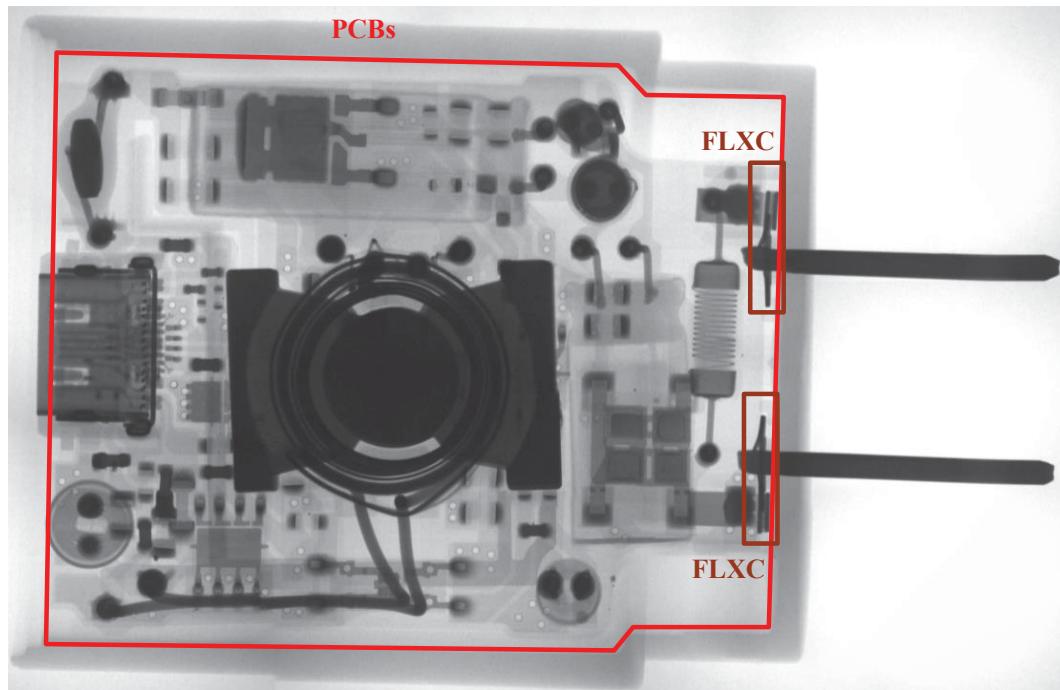
the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and



Claim 43

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a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and

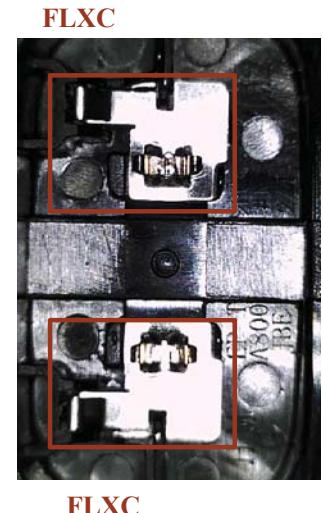
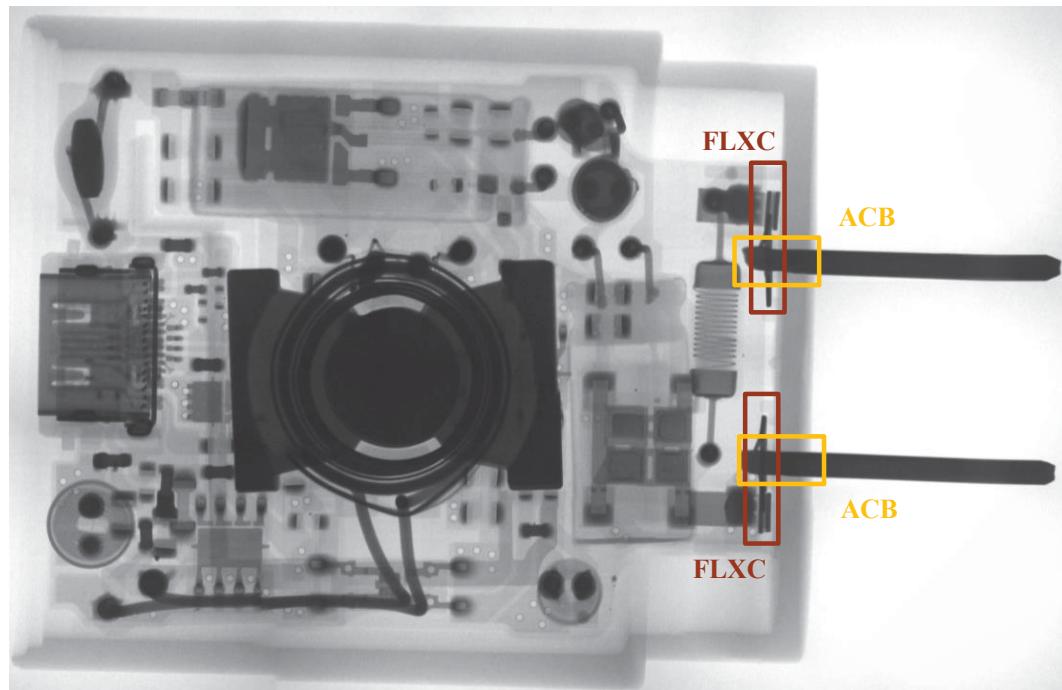


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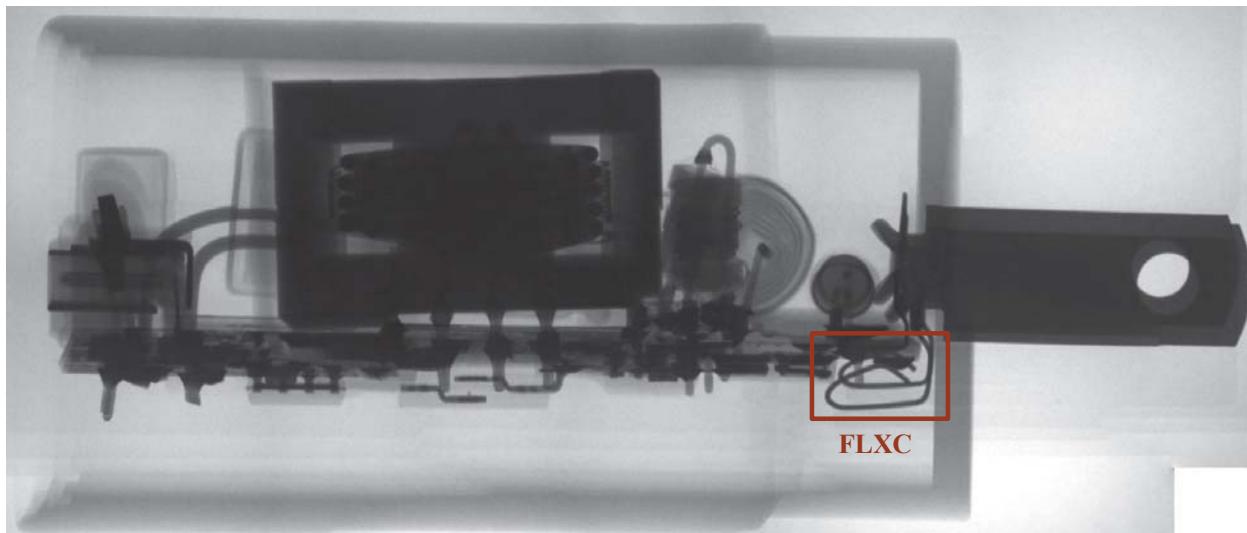
(FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.



Claim 43

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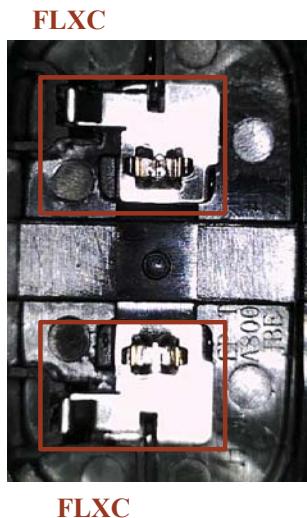
(FLXC) flexibly biased to couple with a proximate end of the ac power blades.



Claim 53

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

The adapter of claim 43, wherein the **(FLXC)** flexible contact comprises a metallic conductor.

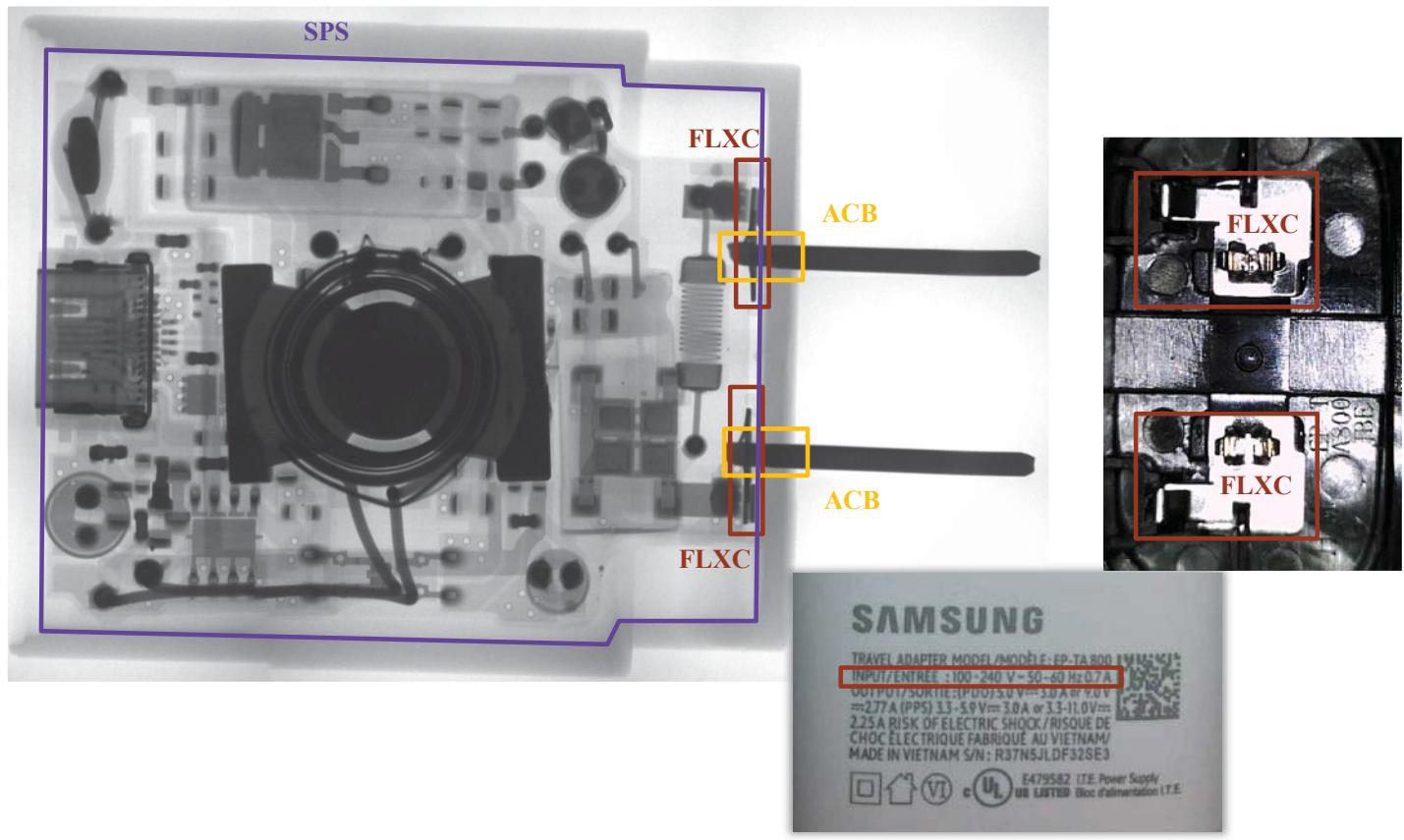


FLXC

Claim 54

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The adapter of claim 43, wherein the **(FLXC)** flexible contact is configured to electrically couple an AC power source from the **(ACB)** ac power blades to the **(SPS)** power converter circuit.



Claim 60

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The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

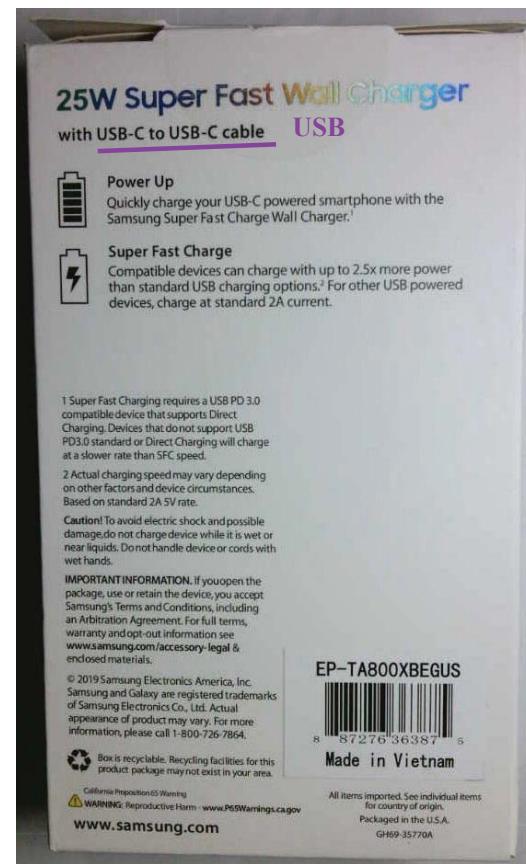
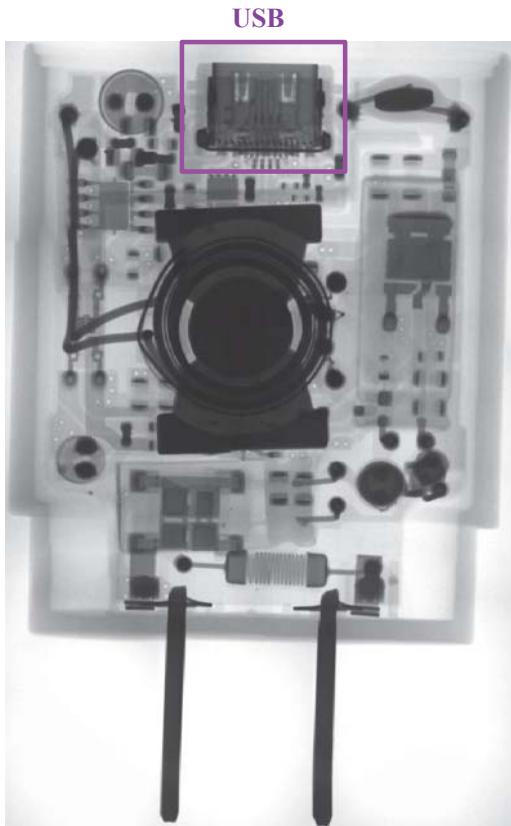


Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

Claim 43

A (PC) power supply adapter comprising:

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

a (RECT) rectifier coupled with (ACB) ac power blades;

a (REG) regulator circuit coupled with the (RECT) rectifier;

a (XFM) transformer coupled with the (REG) regulator circuit,

the (XFM) transformer including a (XP) primary and a (XS) secondary,

the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.

Claim 53

The adapter of claim 43, wherein the (FLXC) flexible contact comprises a metallic conductor.

Claim 54

The adapter of claim 43, wherein the (FLXC) flexible contact is configured to electrically couple an AC power source from the (ACB) ac power blades to the (SPS) power converter circuit.

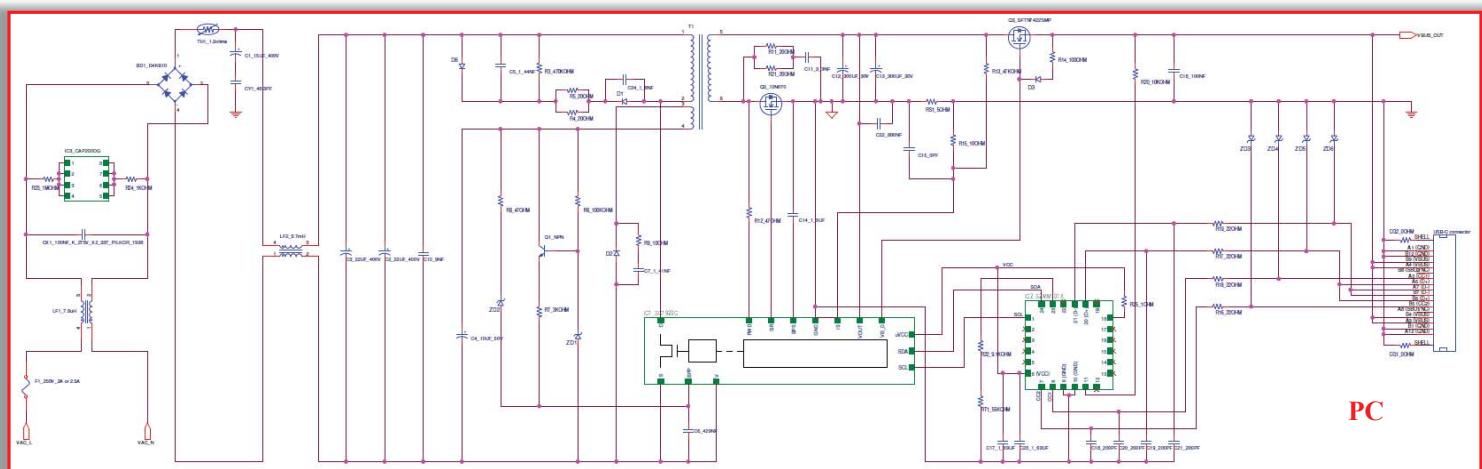
Claim 60

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

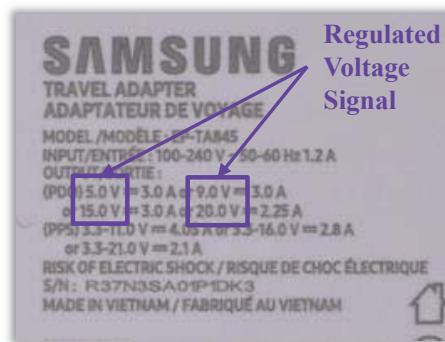
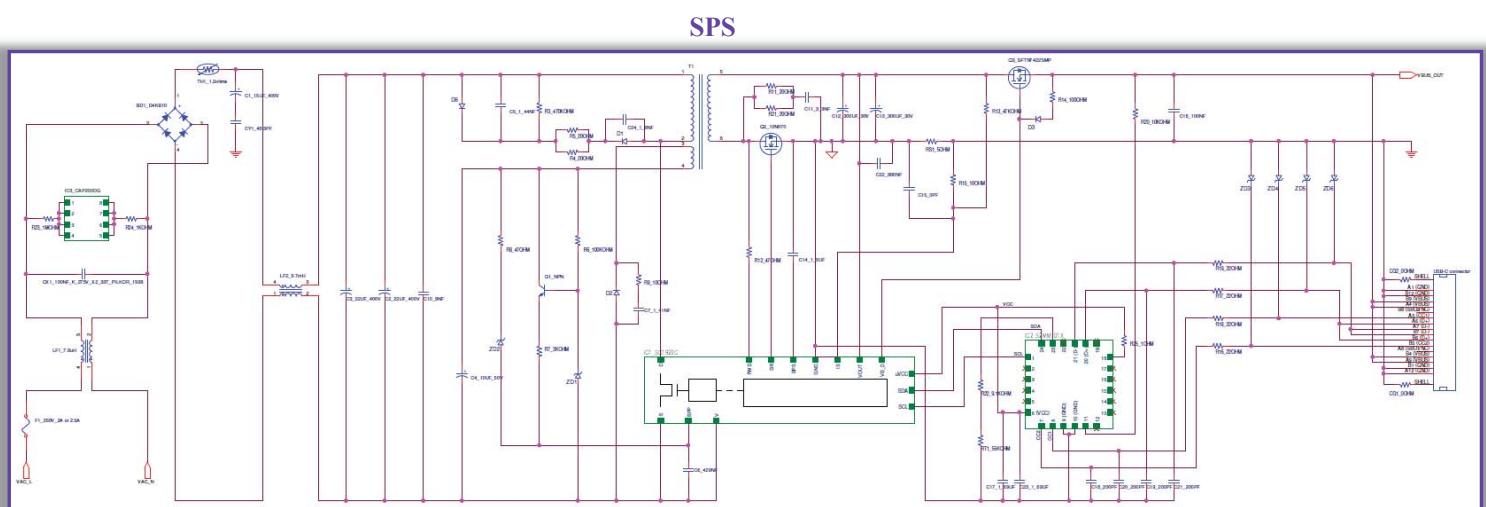
A (PC) power supply adapter comprising:



Claim 43

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a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

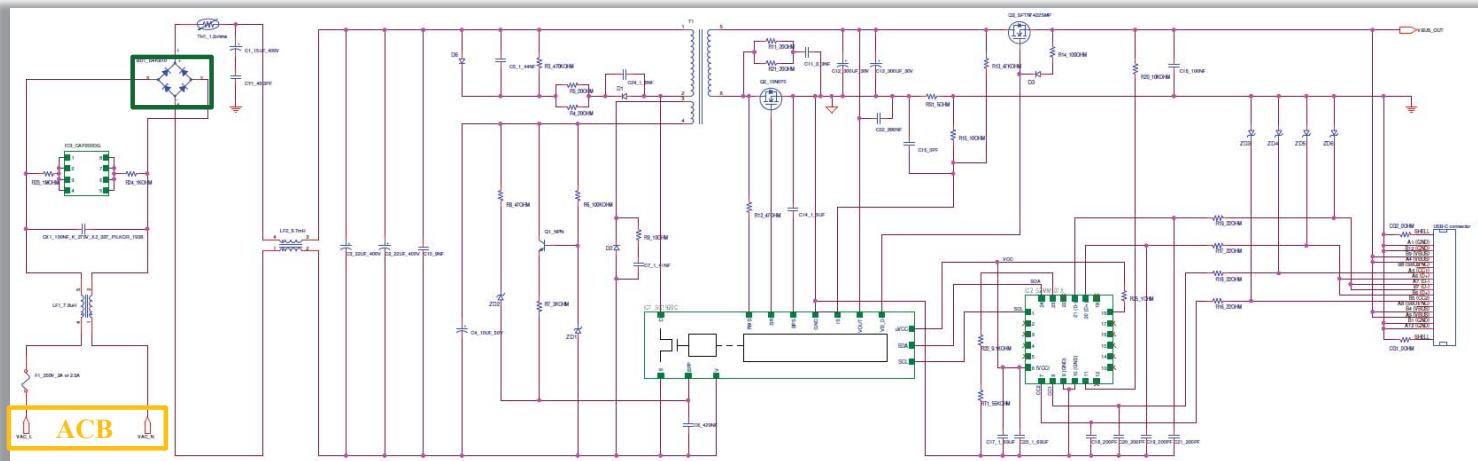


Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

a (RECT) rectifier coupled with (ACB) ac power blades;

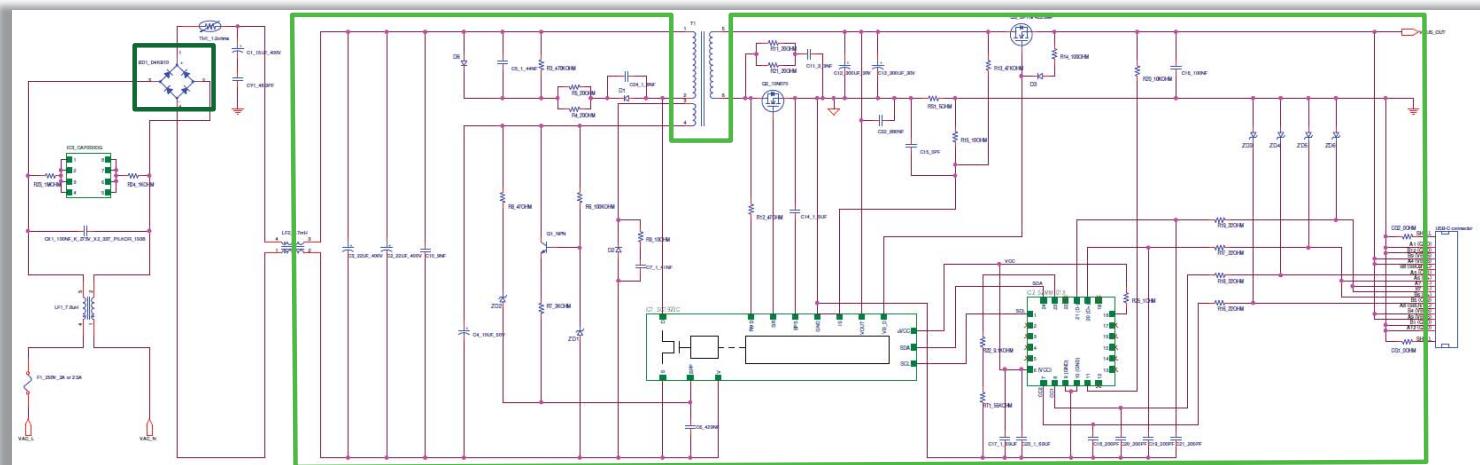
RECT



Claim 43

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a (REG) regulator circuit coupled with the (RECT) rectifier;

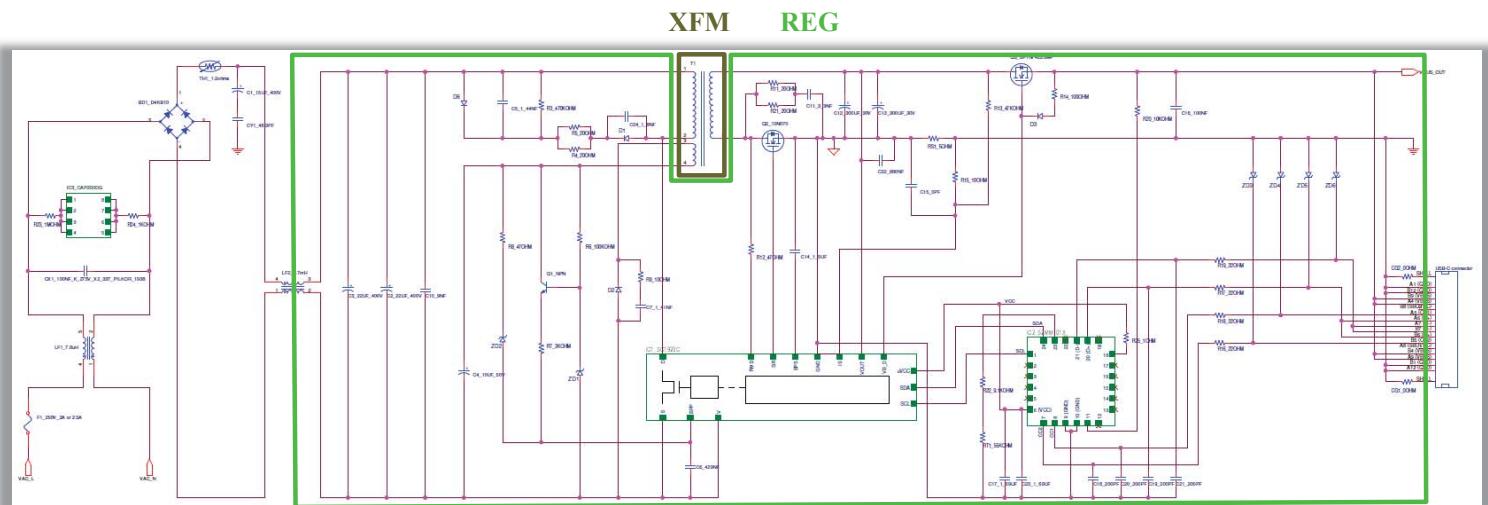


Preliminary – Subject to Change

Claim 43

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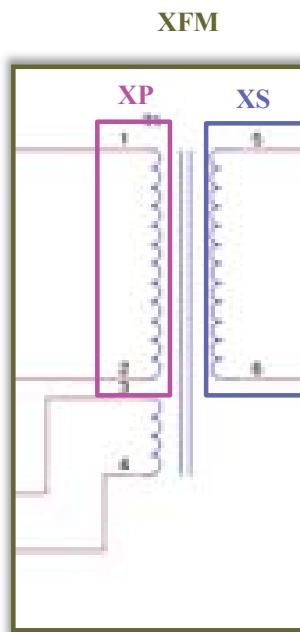
a (XFM) transformer coupled with the (REG) regulator circuit,



Claim 43

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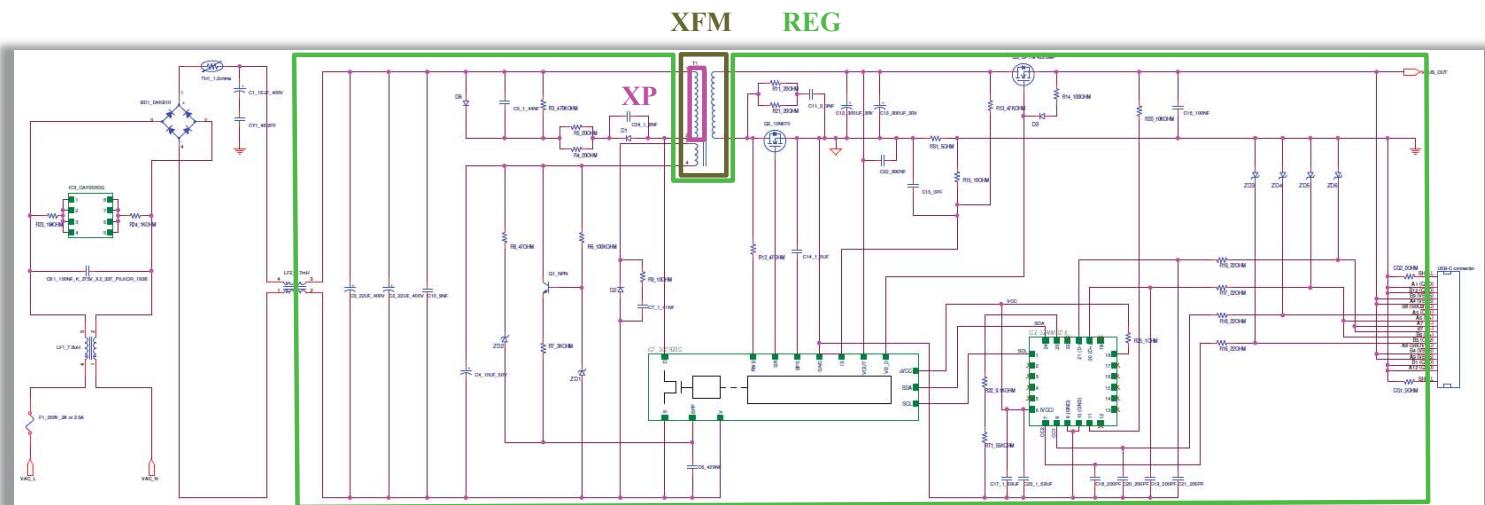
the (XFM) transformer including a (XP) primary and a (XS) secondary,



Claim 43

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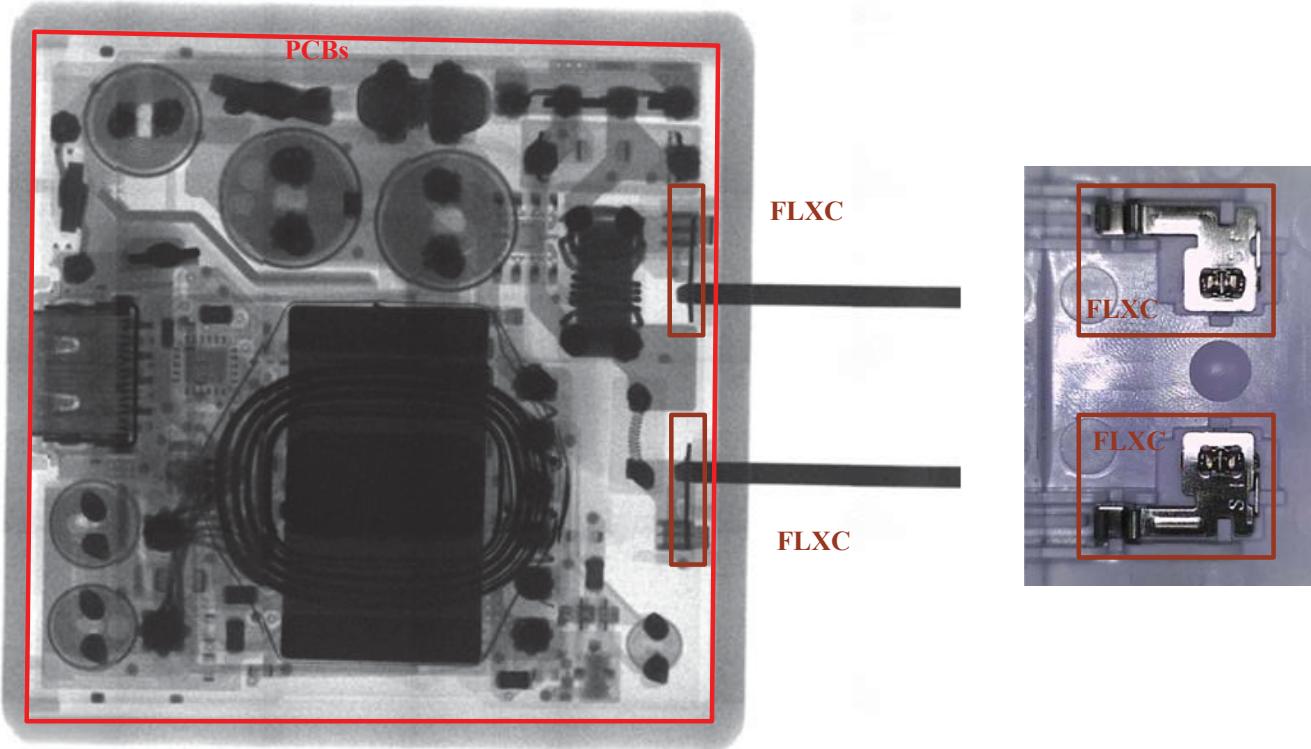
the **(XFM)** transformer being coupled with the **(REG)** regulator circuit via the **(XP)** primary; and



Claim 43

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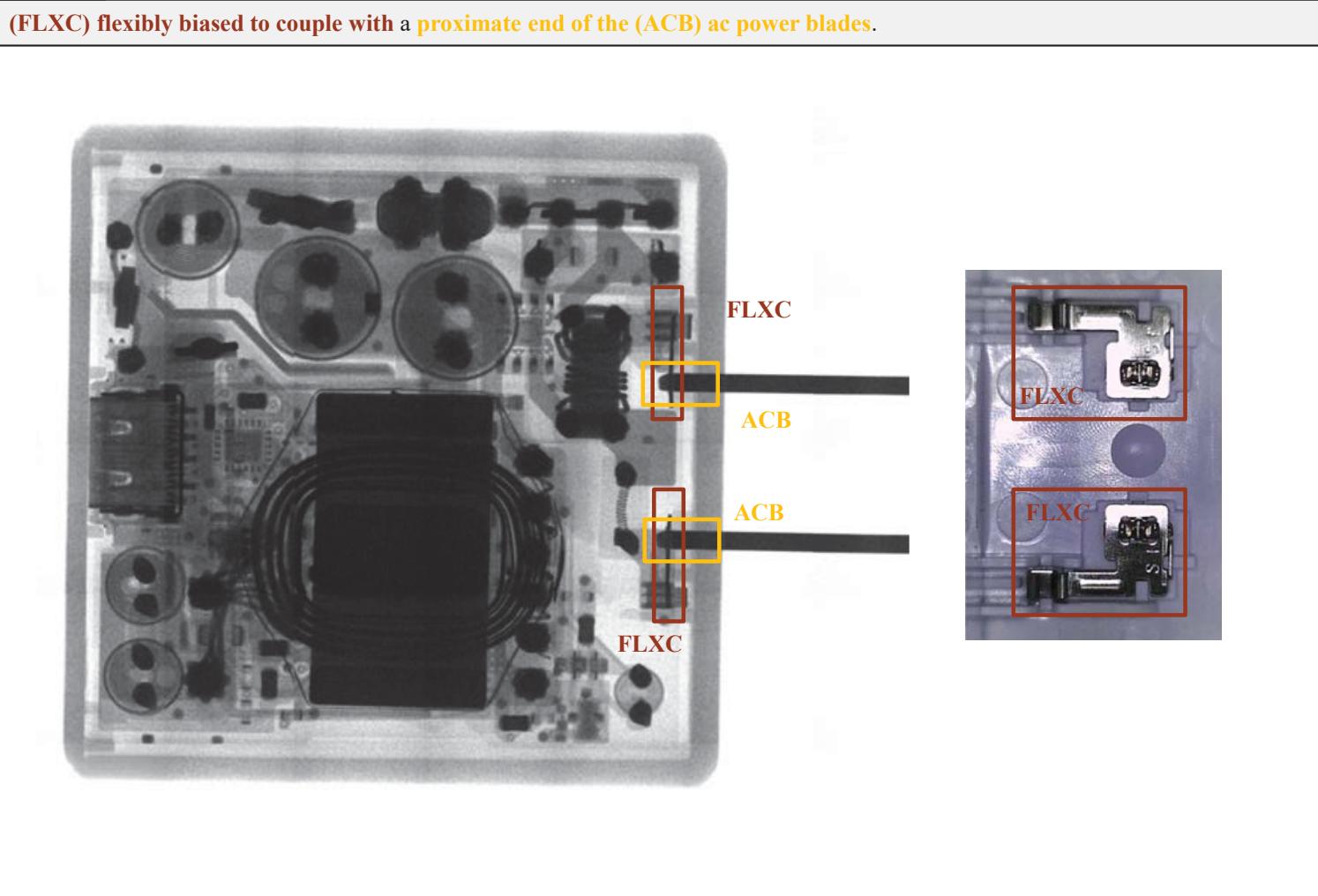
a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and



Potentially, literally and equivalently present.

Claim 43

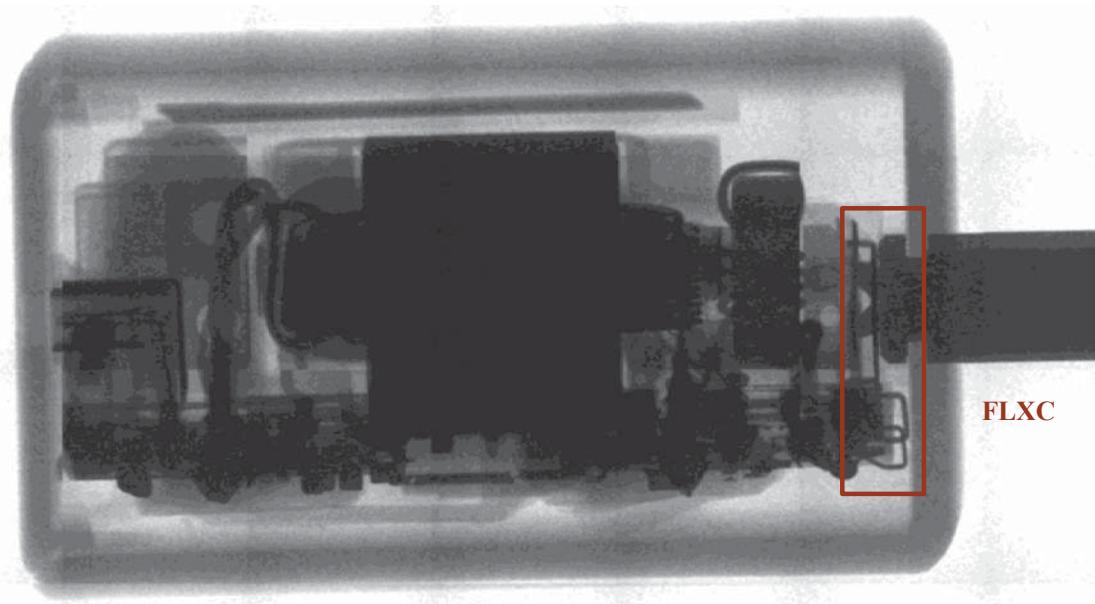
Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845



Claim 43

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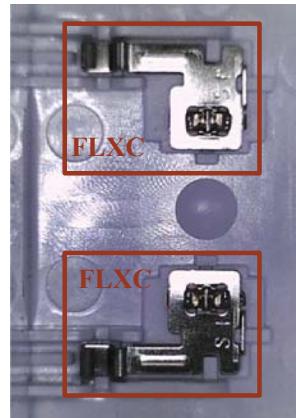
(FLXC) flexibly biased to couple with a proximate end of the ac power blades.



Claim 53

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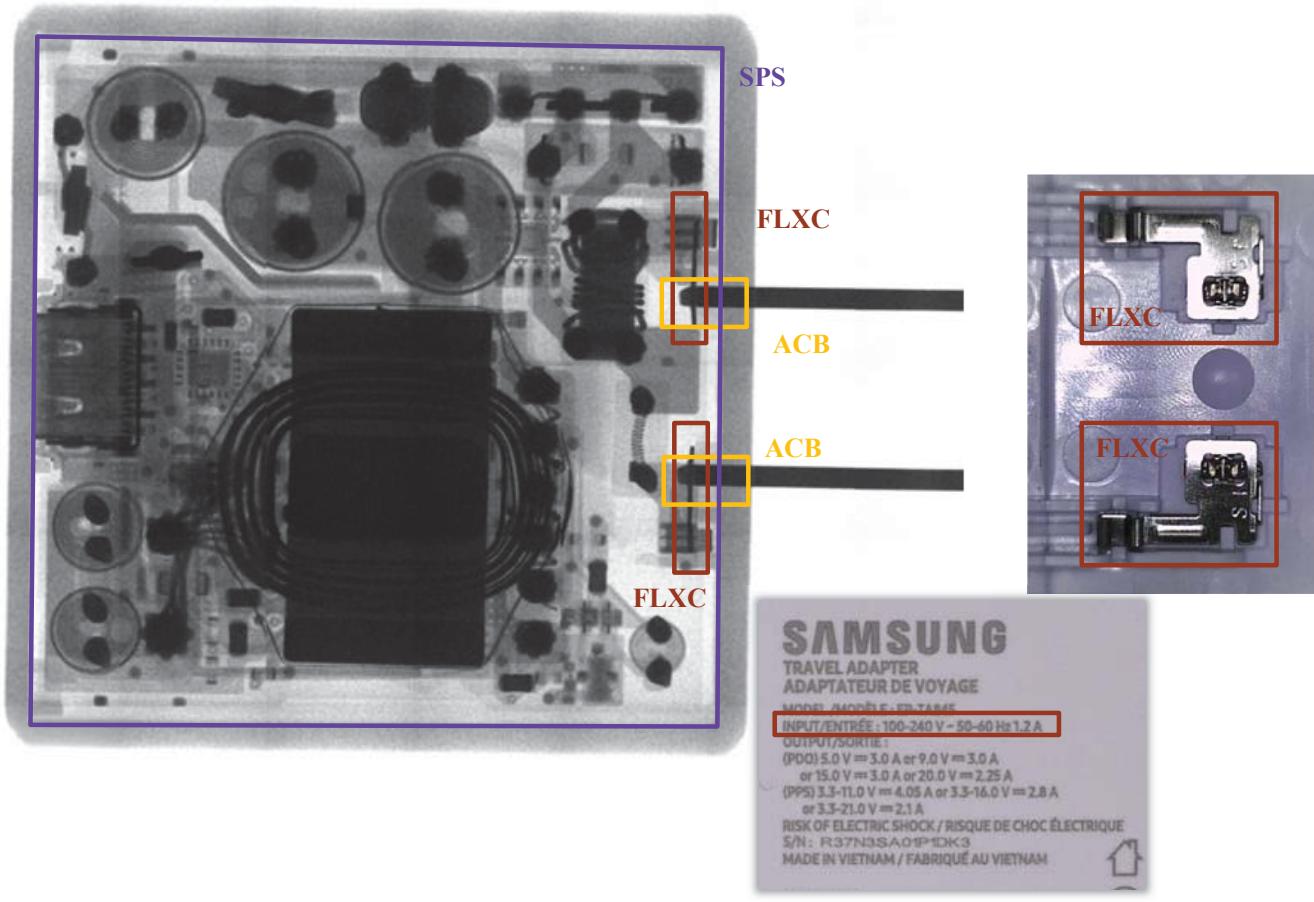
The adapter of claim 43, wherein the **(FLXC)** flexible contact comprises a metallic conductor.



Claim 54

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

The adapter of claim 43, wherein the **(FLXC)** flexible contact is configured to electrically couple an AC power source from the **(ACB)** ac power blades to the **(SPS)** power converter circuit.



Claim 60

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

